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(54) BIODEGRADABLE WATER-ABSORBING MATERIAL AND PRODUCTION METHOD THEREOF

(57)Abstract:

PROBLEM TO BE SOLVED: To provide a water-absorbing material having biodegradability and stable water-absorbing capacity and gel strength to concentration of divalent or less cation in an absorbed liquid, and a production method thereof.

SOLUTION: Disclosed is a water-absorbing material consisting of a galactomannan, boron ion and a trivalent or more polyvalent metal ion except the boron ion, containing 50 mass % or more unmodified galactomannan based on the whole galactomannan, capable of absorbing 40 times or more aqueous solution containing the divalent or less cation based on the self-weight and having gel strength of  $2 \times 10^{-5}$  N/mm<sup>2</sup> or more after water absorption.

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